NPort 5600-8-DTL
Quick Installation Guide

First Edition, March 2011

Overview

The NPort 5600-8-DTL series includes the following models:

- **NPort 5610-8-DTL:** 8 ports, RS-232, 0 to 60°C
- **NPort 5650-8-DTL:** 8 ports, RS-232/422/485, 0 to 60°C
- **NPort 5650I-8-DTL:** 8 ports, RS-232/422/485, 0 to 60°C, 2KV optical isolation.
- **NPort 5610-8-DTL-T:** 8 ports, RS-232, -40 to 75°C
- **NPort 5650-8-DTL-T:** 8 ports, RS-232/422/485, -40 to 75°C
- **NPort 5650I-8-DTL-T:** 8 ports, RS-232/422/485, 2KV optical isolation, -40 to 75°C

Package Checklist

The NPort 5600-8-DTL package should contain the following items:

- NPort 5600-8-DTL device server
- Wall mounting and DIN-Rail kits
- Stick-on pads
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card

Optional Accessories*

- **DK-35A:** DIN-Rail mounting kit (35 mm)

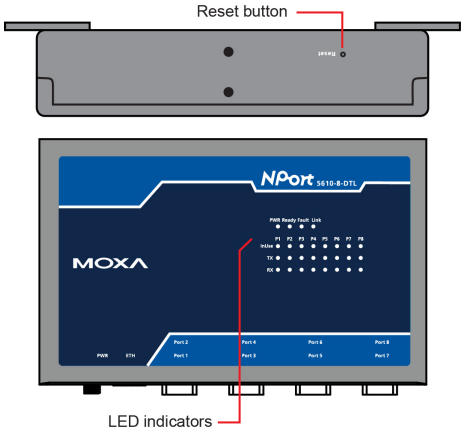
Note: Please notify your sales representative if any of the above items are missing or damaged.

*Optional Accessories can be ordered separately.

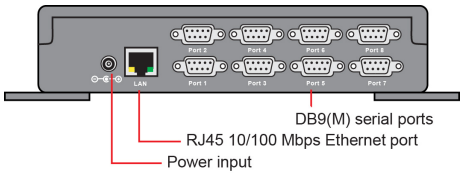
P/N: 1802056000010

Hardware Introduction

Top and Rear Views



Front View



Reset Button

Use a pointed object to hold the reset button down for at least five seconds to load the factory defaults. Release the reset button when the Ready LED stops blinking.

LED Indicators

The LED indicators on the top panel are used to display the status as follows:

Name	Color	Function
PWR	red	Power is on.
	off	Power is off.
Ready	green	Steady: NPort is operational Blinking: NPort is responding to NPort Administrator "Locate" function or NPort is resetting to factory default
	off	Power is off or fault condition exists.
Fault	red	IP conflict or DHCP or BOOTP server did not respond properly.
	off	No fault condition detected.

Link	green	Steady: Network is connected; no data is being transmitted. Blinking: Network is connected; data is being transmitted.
	off	Ethernet cable is disconnected or has a short.
InUse (P1 to P8)	green	Serial port has been opened by server side software.
	off	Serial port is not currently opened by server side software.
TX/RX (P1 to P8)	green (Tx)	Serial device is transmitting data.
	orange (Rx)	Serial device is receiving data.
	off	No data is flowing to or from the serial port.

Hardware Installation

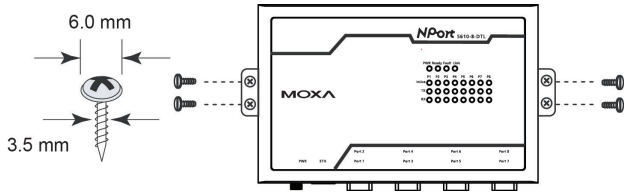
STEP 1: After removing the NPort 5600-8-DTL from the box, place it on a desktop or other horizontal surface. Connect the 12-48 VDC power adaptor to the NPort 5600-8-DTL's power input when using an AC power source, or connect the NPort 5600-8-DTL's terminal block directly to a DC power source.

STEP 2: Use an Ethernet cable to connect the NPort 5600-8-DTL to a network hub or switch. You can also connect directly to your computer's Ethernet port, which is convenient for initial configuration or testing.

STEP 3: Connect the NPort 5600-8-DTL's serial port to a serial device.

Wall or Cabinet Mounting

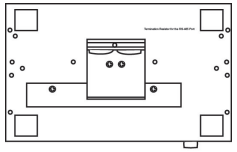
The NPort 5600-8-DTL comes with two metal attachment plates to allow installation on a wall or the inside of a cabinet. First, attach the brackets to the back of the NPort with screws. Next, mount the unit on a wall or cabinet with screws. Screws should be less than 6.0 mm in head diameter, and less than 3.5 mm in shaft diameter.



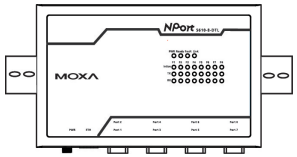
DIN-Rail Mounting

DIN-Rail attachments can be purchased separately to attach the product to a DIN-Rail. The DIN-Rail attachments should be oriented with the metal springs on top.

Standard Attachment



DK-35A Attachment



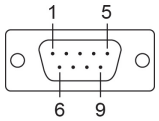
Software Installation Information

To install **NPort Administration Suite**, insert the NPort **Document & Software CD** into your PC's CD-ROM drive. Locate and run the setup program and follow the on-screen instructions. The setup program will be named **Npadm_Setup_**[*Version*]**_Build_**[*DateTime*]**.exe** (e.g., "Npadm_Setup_Ver1.16_Build_11021010.exe"). Refer to the NPort 5600-8-DTL User's Manual for more details.

Pin Assignments

DB9 Male Ports

Pin	RS-232	RS-422/ RS-485-4W	RS-485-2W
1	DCD	TxD-(A)	–
2	RxD	TxD+(B)	
3	TxD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)
5	GND	GND	GND
6	DSR	–	–
7	RTS	–	–
8	CTS	–	–
9	–	–	–



Note: The NPort 5610-8-DTL supports RS-232 only.

Specifications

LAN

Ethernet Ports: 10/100 Mbps (RJ45)
Protection: Built-in 1.5 KV magnetic isolation

Serial Interface

RS-232: NPort 5610-8-DTL
RS-232/422/485: NPort 5650-8-DTL, 5650I-8-DTL
Serial Ports: 8 (DB9-M connectors)
Isolation: 2 KV isolation (NPort 5650I-8-DTL)

Serial Signals

RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422: Tx+, Tx-, Rx+, Rx-, GND
RS-485 (2-wire): Data+, Data-, GND
RS-485 (4-wire): Tx+, Tx-, Rx+, Rx-, GND
Serial Line Protection: 15 KV ESD for all signals
RS-485 Data Direction: ADDC™ (Automatic Data Direction Control)

Serial Communication Parameters

Parity: None, Even, Odd, Space, Mark
Data Bits: 5, 6, 7, 8
Stop Bit(s): 1, 1.5, 2
Flow Control: RTS/CTS, DSR/DTR (for RS-232 only), XON/XOFF
Transmission Speed: 50 bps to 921.6 Kbps

Power Requirements

Power Input: 12 to 48 VDC

Physical Characteristics

Operating Temperature:
Standard Models: 0 to 60°C (32 to 140°F)
Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Operating Humidity: 5 to 95% RH
Material: SECC sheet metal (0.8 mm)
Dimensions:
Without ears: 197 × 44 × 125 mm
With ears: 229 × 46 × 125 mm
With DIN-Rail kit: 197 × 52.8 × 125 mm

Certifications

Regulatory Approvals: FCC Class A, CE Class A, UL 60950-1, LVD
Warranty: 5 years

MOXA®

www.moxa.com/support

The Americas: +1-714-528-6777 (toll-free: 1-888-669-2872)
Europe: +49-89-3 70 03 99-0
Asia-Pacific: +886-2-8919-1230
China: +86-21-5258-9955 (toll-free: 800-820-5036)

© 2011 Moxa Inc., All Rights Reserved